

Ref 19

USEPA CONTRACT LABORATORY PROGRAM

STATEMENT OF WORK

FOR

INORGANIC SUPERFUND METHODS

(Multi-Media, Multi-Concentration)

ISM01.2

January 2010

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TABLE OF CONTENTS

EXHIBIT A:	SUMMARY OF REQUIREMENTS
EXHIBIT B:	REPORTING AND DELIVERABLES REQUIREMENTS
EXHIBIT C:	INORGANIC TARGET ANALYTE LIST WITH CONTRACT REQUIRED QUANTITATION LIMITS
EXHIBIT D:	ANALYTICAL METHODS
EXHIBIT E:	CONTRACT LABORATORY PROGRAM QUALITY ASSURANCE MONITORING PLAN
EXHIBIT F:	CHAIN-OF-CUSTODY, DOCUMENT CONTROL, AND WRITTEN STANDARD OPERATING PROCEDURES
EXHIBIT G:	GLOSSARY OF TERMS
EXHIBIT H:	FORMAT FOR ELECTRONIC DATA DELIVERABLES

EXHIBIT C

INORGANIC TARGET ANALYTE LIST
WITH CONTRACT REQUIRED
QUANTITATION LIMITS

Exhibit C - Inorganic Target Analyte List With Contract
Required Quantitation Limits

Table of Contents

<u>Section</u>	<u>Page</u>
1.0 INORGANIC TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQLs)	3

Exhibit C -- Section 1
Inorganic Target Analyte List and CRQLs

1.0 INORGANIC TARGET ANALYTE LIST AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQLS)

Table 1. CRQLS for ICP-AES

Analyte	CAS Number	ICP-AES CRQL for Water ^{1,2,3} (µg/L)	ICP-AES CRQL for Soil ^{1,2,3,4} (mg/kg)	ICP-AES for Wipes ^{1,2} (µg)	ICP-AES for Filters ^{1,2} (µg)
Aluminum	7429-90-5	200	20	20	2
Antimony	7440-36-0	60	6	6	0.6
Arsenic	7440-38-2	10	1	1	0.1
Barium	7440-39-3	200	20	20	2
Beryllium	7440-41-7	5	0.5	0.5	0.05
Cadmium	7440-43-9	5	0.5	0.5	0.05
Calcium	7440-70-2	5000	500	500	50
Chromium	7440-47-3	10	1	1	0.10
Cobalt	7440-48-4	50	5	5	0.5
Copper	7440-50-8	25	2.5	2.5	0.25
Iron	7439-89-6	100	10	10	1
Lead	7439-92-1	10	1	1	0.1
Magnesium	7439-95-4	5000	500	500	50
Manganese	7439-96-5	15	1.5	1.5	0.15
Nickel	7440-02-0	40	4	4	0.4
Potassium	7440-09-7	5000	500	500	50
Selenium	7782-49-2	35	3.5	3.5	0.35
Silver	7440-22-4	10	1	1	0.10
Sodium	7440-23-5	5000	500	500	50
Thallium	7440-28-0	25	2.5	2.5	0.25
Vanadium	7440-62-2	50	5	5	0.5
Zinc	7440-66-6	60	6	6	0.60

¹ The CRQLs are the minimum levels of quantitation acceptable under the contract Statement of Work (SOW).

² Subject to the restrictions specified in Exhibit D, any analytical method specified in ISM01.2 Exhibit D may be utilized as long as the documented MDLs are less than one-half the CRQLs.

³ Changes to the Inorganic Target Analyte List (TAL) (e.g., adding an additional analyte) or CRQLs may be requested under the modified analysis clause in the contract.

⁴ The CRQLs for soil/sediment are based on 100% solids and on the minimum weights and volumes specified in Exhibit D.

Exhibit C -- Section 1
Inorganic Target Analyte List and CRQLs

Table 2. CRQLS for ICP-MS

Analyte	CAS Number	ICP-MS CRQL for Water ^{1,2,3} (µg/L)	ICP-MS CRQL for Soil ^{1,2,3,4} (mg/kg)
Aluminum	7429-90-5	20	--
Antimony	7440-36-0	2	1
Arsenic	7440-38-2	1	0.5
Barium	7440-39-3	10	5
Beryllium	7440-41-7	1	0.5
Cadmium	7440-43-9	1	0.5
Calcium	7440-70-2	500	--
Chromium	7440-47-3	2	1
Cobalt	7440-48-4	1	0.5
Copper	7440-50-8	2	1
Iron	7439-89-6	200	--
Lead	7439-92-1	1	0.5
Magnesium	7439-95-4	500	--
Manganese	7439-96-5	1	0.5
Nickel	7440-02-0	1	0.5
Potassium	7440-09-7	500	--
Selenium	7782-49-2	5	2.5
Silver	7440-22-4	1	0.5
Sodium	7440-23-5	500	--
Thallium	7440-28-0	1	0.5
Vanadium	7440-62-2	5	2.5
Zinc	7440-66-6	2	1

¹ The CRQLs are the minimum levels of quantitation acceptable under the contract Statement of Work (SOW).

² Subject to the restrictions specified in Exhibit D, any analytical method specified in ISM01.2 Exhibit D may be utilized as long as the documented MDLs are less than one-half the CRQLs.

³ Changes to the Inorganic Target Analyte List (TAL) (e.g., adding an additional analyte) or CRQLs may be requested under the modified analysis clause in the contract.

⁴ The CRQLs for soil/sediment are based on 100% solids and on the minimum weights and volumes specified in Exhibit D.

Table 3. CRQLS for Mercury by Cold Vapor Atomic Absorption (CVAA)

Analyte	CAS Number	CRQL for Water ^{1,3} (µg/L)	CRQL for Soil ^{1,2,3} (mg/kg)
Mercury	7439-97-6	0.2	0.1

¹ The CRQLs are the minimum levels of quantitation acceptable under the contract Statement of Work (SOW).

² The CRQL for soil/sediment are based on 100% solids and on the minimum weights and volumes specified in Exhibit D.

³ Changes to the CRQL may be requested under the Modified Analysis clause in the contract.

Table 4. CRQLS for Cyanide by Spectrophotometry

Analyte	CAS Number	CRQL for Water ^{1,2,3,5} (µg/L)	CRQL for Soil ^{1,2,3,4,5} (mg/kg)
Cyanide	57-12-5	10	0.5

¹ The CRQLs are the minimum levels of quantitation acceptable under the contract Statement of Work (SOW).

² Subject to the restrictions specified in Exhibit D, any analytical method specified in ISM01.2 Exhibit D may be utilized as long as the documented MDLs are less than one-half the CRQLs.

³ Changes to the CRQL may be requested under the Modified Analysis clause in the contract.

⁴ The CRQL for soil/sediment are based on 100% solids and on the minimum weights and volumes specified in Exhibit D.

⁵ Use the CRQLs for cyanide regardless of the preparation or analysis method used to analyze the samples.